# Chapter 8 Review Guide

**Directions:** Read and carefully answer the questions below. If you **truly *understand*** everything on this sheet you will be in good shape for the test.

1. What is an electric motor; how does it work; how is the energy converted? (the same for

generators)

1. What are the main similarities and differences between motors and generators?
2. What types of materials are magnetic? (be specific)
3. An electromagnet has four very unique characteristics, what are they?
4. What causes magnetism (the very basic particle…)
5. Draw the field lines of a bar magnet, 2 magnets attracting and two magnets repelling

S

S

N

N

S

S

N

N

S

N

1. How does the commutator switch the poles and allow the rotor to continue to spin?
2. How does and electromagnet work? Be very specific, DO NOT just say because the electricity

lines up the domains, say why.